

S. Turner - Rush

#26  
12-21-03 ST



1600

RAW SEQUENCE LISTING

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:24

Input Set : A:\6142\_revised2.seq.txt  
Output Set: N:\CRF4\12112003\I328877D.raw

RECEIVED

DEC 23 2003

TECH CENTER 1600/2900

3 <110> APPLICANT: Gurney, Mark E.  
5 Li, Jinhe  
7 Pauley, Adele M.  
9 Pharmacia & Upjohn Company  
13 <120> TITLE OF INVENTION: Human Sel-10 Polypeptides and Polynucleotides that  
15 Encode Them  
19 <130> FILE REFERENCE: 6142  
C--> 23 <140> CURRENT APPLICATION NUMBER: US/09/328,877D  
C--> 25 <141> CURRENT FILING DATE: 1999-06-09  
29 <160> NUMBER OF SEQ ID NOS: 32  
33 <170> SOFTWARE: PatentIn Ver. 2.0  
36 <210> SEQ ID NO: 1  
37 <211> LENGTH: 3550  
38 <212> TYPE: DNA  
39 <213> ORGANISM: Homo sapiens  
41 <220> FEATURE:  
42 <221> NAME/KEY: misc\_feature  
43 <222> LOCATION: (2485)..(2485)  
44 <223> OTHER INFORMATION: residue uncertain  
47 <220> FEATURE:  
48 <221> NAME/KEY: misc\_feature  
49 <222> LOCATION: (3372)..(3372)  
50 <223> OTHER INFORMATION: residue uncertain  
53 <400> SEQUENCE: 1  
54 ctcattattc cctcaggttc ttctcagtc agctgcatgt atgtatgtgt gtcccagaaa 60  
56 gcggtttgat actgagctgc atttgcctt actgtggagt tttgttgccg gttctgctcc 120  
58 ctaatcttcc ttttctgacg tgccctgagca tgtccacatt agaatctgtg acatacctac 180  
60 ctgaaaaagg tttatattgt cagagactgc caagcagccg gacacacggg ggcacagaat 240  
62 cactgaaggg gaaaaataca gaaaatatgg gtttctacgg cacattaana atgatttttt 300  
64 acaaaatgaa aagaaagtgt gaccatgggt ctgaggtccg ctctttttct ttgggaaaga 360  
66 aaccatgcaa agtctcagaa tatacaagta ccaactgggct tgtaccatgt tcagcaacac 420  
68 caacaacttt tggggacctc agagcagcca atggccaagg gcaacaacga cgccgaatta 480  
70 catctgtcca gccacctaca ggcctccagg aatggctaaa aatgtttcag agctggagt 540  
72 gaccagagaa attgcttgct ttagatgaac tcattgatag ttgtgaacca acacaagtaa 600  
74 aacatatgat gcaagtgata gaaccccagt ttcaacgaga cttcatttca ttgctcccta 660  
76 aagagttggc actctatgtg ctttcattcc tggaaaccaa agacctgcta caagcagctc 720  
78 agacatgtcg ctactggaga attttggtg aagacaacct tctctggaga gagaaatgca 780  
80 aagaagaggg gattgatgaa ccattgcaca tcaagagaag aaaagtaata aaaccaggtt 840  
82 tcatacacag tccatggaaa agtgcataca tcagacagca cagaattgat actaactgga 900  
84 ggcgaggaga actcaaactc cctaaggtgc tgaaaggaca tgatgatcat gtgatcacat 960  
86 gcttacagtt ttgtggtaac cgaatagtta gtggttctga tgacaacact ttaaaagttt 1020  
88 ggtcagcagt cacaggcaaa tgtctgagaa cattagtggg acatacaggt ggagtatggt 1080  
90 catcacaat gagagacaac atcatcatta gtggatctac agatcggaca ctcaaagtgt 1140

ENTERED

## RAW SEQUENCE LISTING

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:24

Input Set : A:\6142\_revised2.seq.txt

Output Set: N:\CRF4\12112003\I328877D.raw

```

92 ggaatgcaga gactggagaa tgtatacaca cttatatgg gcatacttcc actgtgcgct 1200
94 gtatgcatct tcatgaaaaa agagttgta gcggttctcg agatgccact cttaggggtt 1260
96 gggatattga gacaggccag tgtttacatg ttttgatggg tcatgttgca gcagtcgct 1320
98 gtgttcaata tgatggcagg agggttgta gtggagcata tgattttatg gtaaagggtg 1380
100 gggatccaga gactgaaacc tgtctacaca cgttgcaggg gcatactaata agagtctatt 1440
102 cattacagtt tgatggtatc catgtggtga gtggatctct tgatacatca atccgtggtt 1500
104 gggatgtgga gacagggaat tgcatcaca cgtaaacagg gcaccagtcg ttaacaagtg 1560
106 gaatggaact caaagacaat attcttctct ctgggaatgc agattctaca gttaaaatct 1620
108 gggatataca aacaggacag tgtttacaaa cattgcaagg tccaacaag catcagagtg 1680
110 ctgtgacctg tttacagttc aacaagaact ttgtaattac cagctcagat gatggaactg 1740
112 taaaactatg ggacttgaaa acgggtgaat ttattcgaaa cctagtcaca ttggagagtg 1800
114 gggggagtgg gggagttgtg tggcggatca gagcctcaaa cacaaagctg gtgtgtgcag 1860
116 ttgggagtcg gaatgggact gaagaaacca agctgctggt gctggacttt gatgtggaca 1920
118 tgaagtgaag agcagaaaag atgaatttgt ccaattgtgt agacgatata ctccctgcc 1980
120 ttccccctgc aaaaagaaaa aaagaaaaga aaaagaaaaa aatcccttgt tctcagtggt 2040
122 gcaggatggt ggcttggggc aacagattga aaagacctac agactaagaa ggaaaagaa 2100
124 aagagatgac aaaccataac tgacaagaga ggcgtctgct gtctcatcac ataaaaggct 2160
126 tcaactttga ctgagggcag ctttgcaaaa tgagactttc taaatcaaac caggtgcaat 2220
128 tatttcttta ttttcttctc cagtggatcat tggggcagtg ttaatgctga aacatcatta 2280
130 cagattctgc tagcctgttc ttttaccact gacagctaga cacctagaaa ggaactgcaa 2340
132 taatatcaaa acaagtaact gttgactttc taattagaga gcatctgcaa caaaaagtca 2400
134 ttttctgga gtggaaaagc ttaaaaaaat tactgtgaat tgtttttgta cagttatcat 2460
W--> 136 gaaaagcttt tttttttatt ttttngccaa ccattgccaa tgtcaatcaa tcacagtatt 2520
138 agcctctggt aatctattta ctggtgcttc catatacatt cttcaatgca tatgttgctc 2580
140 aaagtgagca agttgtcctg ggttctgtga gtctgagat ggatttaatt ctgtagctg 2640
142 gtgctagaag taggtcttca aatatgggat tgttgcctca accctgtact gtactcccag 2700
144 tggccaaact tatttatgct gctaaatgaa agaaaagaaa aagcaaatta tttttttat 2760
146 ttttttctg ctgtgacgtt ttagtcccag actgaattcc aaatttgctc tagtttggt 2820
148 atggaaaaaa gactttttgc cactgaaact tgagccatct gtgcctctaa gaggtgaga 2880
150 atggaagagt ttcagataat aaagagtga gtttgcctgc aagtaaagaa ttgagagtgt 2940
152 gtgcaaagct tttttcttt tatctgggca aaaattaaaa cacattcctt ggaacagagc 3000
154 tattacttgc ctgttctgtg gagaaacttt tctttttgag ggctgtggtg aatggatgaa 3060
156 cgtacatcgt aaaactgaca aaatatttta aaaatatata aaacacaaaa ttaaaaataa 3120
158 gttgctggtc agtcttagtg ttttacagta tttgggaaaa caactgttac agttttattg 3180
160 ctctgagtaa ctgacaaaagc agaaaactatt cagtttttgt agtaaaggcg tcacatgcaa 3240
162 acaaacaaaa tgaatgaaac agtcaaatgg tttgcctcat tctccaagag ccacaactca 3300
164 agctgaactg tgaaagtgg ttaacactgt atcctaggcg atcttttttc ctcttctgt 3360
166 ttattttttt gnttgtttta tttatagtct gatttaaaac aatcagattc aagttgggta 3420
168 attttagtta tgtaacaacc tgacatgatg gaggaaaaca acctttaaag ggattgtgtc 3480
170 tatggttga ttcacttaga aattttattt tcttataact taagtgcaat aaaatgtgtt 3540
172 ttttcatggt
175 <210> SEQ ID NO: 2
176 <211> LENGTH: 3571
177 <212> TYPE: DNA
178 <213> ORGANISM: Homo sapiens
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (2506)..(2506)
183 <223> OTHER INFORMATION: residue uncertain

```

RAW SEQUENCE LISTING

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:24

Input Set : A:\6142\_revised2.seq.txt

Output Set: N:\CRF4\12112003\I328877D.raw

```

186 <220> FEATURE:
187 <221> NAME/KEY: misc feature
188 <222> LOCATION: (3393)..(3393)
189 <223> OTHER INFORMATION: residue uncertain
192 <400> SEQUENCE: 2
193 ctccagcaggt caggacaattt ggtaggggaa ggttgaaga caaaagcagc aggccttggg 60
195 ttctcagcct tttaaaaact attattaat atatatattt aaaatttagt ggttagagct 120
197 tttagtaatg tgcctgtatt acatgtagag agtattcgtc aaccaagagg agttttaaaa 180
199 tgtcaaaacc gggaaaacct actctaaacc atggcttggg tcctgttgat cttaaaagtg 240
201 caaaagagcc tctaccacat caaacctgta tgaagatatt tagcattagc atcattgcc 300
203 aaggcctccc tttttgtcga agacggatga aaagaaagt ggaccatggt tctgaggctc 360
205 gctctttttc tttgggaaag aaacctgca aagtctcaga atatacaagt accactgggc 420
207 ttgtaccatg ttccagcaaca ccaacaactt ttggggacct cagagcagcc aatggccaag 480
209 ggcaacaacg acgccgaatt acatctgtcc agccacctac aggcctccag gaatggctaa 540
211 aatgttttca gagctggagt ggaccagaga aattgcttgc tttagatgaa ctcatgata 600
213 gttgtgaacc aacacaagta aaacatatga tgcaagtgat agaaccagg tttcaacgag 660
215 acttcatttc attgctccct aaagagttgg cactctatgt gctttcattc ctggaacca 720
217 aagacctgct acaagcagct cagacatgct gctactggag aattttggct gaagacaacc 780
219 ttctctggag agagaaatgc aaagaagagg ggattgatga accattgcac atcaagagaa 840
221 gaaaagtaat aaaaccaggt ttcatacaca gtccatggaa aagtgcatac atcagacagc 900
223 acagaattga tactaactgg aggcgaggag aactcaaate tctaagggtg ctgaaaggac 960
225 atgatgatca tgtgatcaca tgcttacagt tttgtggtaa ccgaatagtt agtggttctg 1020
227 atgacaacac tttaaaagt ttggtcagcag tcacaggcaa atgtctgaga acattagtgg 1080
229 gagatacagg tggagtatgg tcatcacaaa tgagagaaa catcatcatt agtggatcta 1140
231 cagatcggac actcaaagtg tggatgacag agactggaga atgtatacac acctatattg 1200
233 ggcatacttc cactgtgctg tgtatgcatc ttcataaaaa aagagttggt agcggttctc 1260
235 gagatgccac tcttaggggt tgggatattg agacaggcca gtgtttacat gttttgatgg 1320
237 gtcatgttgc agcagtcggc tgtgttcaat atgatggcag gagggttgtt agtggagcat 1380
239 atgattttat ggtaaagggt tgggatccag agactgaaac ctgtctacac acgttgagg 1440
241 ggcatactaa tagagtctat tcattacagt ttgatgggat ccatgtgggt agtggatctc 1500
243 ttgatacatc aatccgtgtt tgggatgtgg agacagggaa ttgcattcac acgttaacag 1560
245 ggcaccagtc gttacaaggt ggaatggaac tcaaagaaa tattcttctc tctgggaatg 1620
247 cagattctac agttaaactc tgggatatca aaacaggaca gtgtttacaa acattgcaag 1680
249 gtccaacaaa gcatcagagt gctgtgacct gtttacagt caacaagaac tttgtaatta 1740
251 ccagctcaga tgatggaact gtaaaactat gggacttgaa aacgggtgaa tttattcgaa 1800
253 acctagtcac attggagagt ggggggagtg ggggagttgt gtggcggatc agagcctcaa 1860
255 acacaaagct ggtgtgtgca gttgggagtc ggaatgggac tgaagaaacc aagctgctgg 1920
257 tgctggactt tgatgtggac atgaagtga gagcagaaaa gatgaatttg tccaattgtg 1980
259 tagacgatat actccctgcc cttccccctg caaaaagaaa aaaagaaaag aaaaagaaa 2040
261 aatcccttgg ttctcagtgg tgcaggatgt tggcttgggg caacagattg aaaagacct 2100
263 cagactaaga aggaaaagaa gaagagatga caaccataa ctgacaagag aggcgtctgc 2160
265 tgtctcatca cataaaaggc ttcacttttg actgagggca gctttgcaaa atgagacttt 2220
267 ctaaatacaa ccagggtgcaa ttatttcttt attttcttct ccagtgggtc tggggcagt 2280
269 gttaatgctg aaacatcatt acagattctg ctgacctgtt cttttaccac tgacagctag 2340
271 acacctagaa aggaactgca ataatatcaa aacaagtact ggttgacttt ctaattagag 2400
273 agcatctgca acaaaaagtc atttttctgg agtggaaaag cttaaaaaaa ttactgtgaa 2460
W--> 275 ttgtttttgt acagttatca tgaaaagctt ttttttttat tttttngcca accattgcca 2520
277 atgtcaatca atcacagtat tagcctctgt taatctattt actgttgctt ccatatacat 2580
279 tcttcaatgc atatgttgcct caaaggtggc aagttgtcct gggttctgtg agtctgaga 2640

```

## RAW SEQUENCE LISTING

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:24

Input Set : A:\6142\_revised2.seq.txt

Output Set: N:\CRF4\12112003\I328877D.raw

```

281 tggatttaat tcttgatgct ggtgctagaa gtaggtcttc aaatatggga ttgttgtccc 2700
283 aaccctgtac tgtactccca gtggccaaac ttatttatgc tgctaaatga aagaaagaaa 2760
285 aaagcaaatt atttttttta ttttttttct gctgtgacgt tttagtccca gactgaattc 2820
287 caaatttgct ctagtttggg tatggaaaa agactttttg ccaactgaaac ttgagccatc 2880
289 tgtgcctcta agaggctgag aatggaagag tttcagataa taaagagtga agtttgctg 2940
291 caagtaaaga attgagagtg tgtgcaaagc ttatttttct ttatctgggc aaaaattaa 3000
293 acacattcct tggaacagag ctattacttg cctgttctgt ggagaaactt ttctttttga 3060
295 gggctgtggg gaatgatga acgtacatcg taaaactgac aaaatatttt aaaaatatat 3120
297 aaaacacaaa attaaaataa agttgctggg cagtcttagt gttttacagt atttgggaaa 3180
299 acaactgtta cagttttatt gctctgagta actgacaaag cagaaactat tcagtttttg 3240
301 tagtaaaggc gtcacatgca aacaaacaaa atgaatgaaa cagtcaaag gtttgcctca 3300
303 ttctccaaga gccacaactc aagctgaact gtgaaagtgg tttaacactg taccctaggc 3360
305 gatctttttt cctccttctg tttatttttt tgnttgtttt atttatagtc tgatttaaaa 3420
307 caatcagatt caagttgggt aatttttagtt atgtaacaac ctgacatgat ggaggaaaac 3480
309 aacctttaa gggattgtgt ctatggtttg attcacttag aaattttatt ttcttataac 3540
311 ttaagtgcaa taaaatgtgt tttttcatgt t 3571
315 <210> SEQ ID NO: 3
317 <211> LENGTH: 627
319 <212> TYPE: PRT
321 <213> ORGANISM: Homo sapiens
325 <400> SEQUENCE: 3
327 Met Cys Val Pro Arg Ser Gly Leu Ile Leu Ser Cys Ile Cys Leu Tyr
329 1 5 10 15
333 Cys Gly Val Leu Leu Pro Val Leu Leu Pro Asn Leu Pro Phe Leu Thr
335 20 25 30
339 Cys Leu Ser Met Ser Thr Leu Glu Ser Val Thr Tyr Leu Pro Glu Lys
341 35 40 45
345 Gly Leu Tyr Cys Gln Arg Leu Pro Ser Ser Arg Thr His Gly Gly Thr
347 50 55 60
351 Glu Ser Leu Lys Gly Lys Asn Thr Glu Asn Met Gly Phe Tyr Gly Thr
353 65 70 75 80
357 Leu Lys Met Ile Phe Tyr Lys Met Lys Arg Lys Leu Asp His Gly Ser
359 85 90 95
363 Glu Val Arg Ser Phe Ser Leu Gly Lys Lys Pro Cys Lys Val Ser Glu
365 100 105 110
369 Tyr Thr Ser Thr Thr Gly Leu Val Pro Cys Ser Ala Thr Pro Thr Thr
371 115 120 125
375 Phe Gly Asp Leu Arg Ala Ala Asn Gly Gln Gly Gln Gln Arg Arg Arg
377 130 135 140
381 Ile Thr Ser Val Gln Pro Thr Gly Leu Gln Glu Trp Leu Lys Met
383 145 150 155 160
387 Phe Gln Ser Trp Ser Gly Pro Glu Lys Leu Leu Ala Leu Asp Glu Leu
389 165 170 175
393 Ile Asp Ser Cys Glu Pro Thr Gln Val Lys His Met Met Gln Val Ile
395 180 185 190
399 Glu Pro Gln Phe Gln Arg Asp Phe Ile Ser Leu Leu Pro Lys Glu Leu
401 195 200 205
405 Ala Leu Tyr Val Leu Ser Phe Leu Glu Pro Lys Asp Leu Leu Gln Ala
407 210 215 220

```

## RAW SEQUENCE LISTING

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:24

Input Set : A:\6142\_revised2.seq.txt

Output Set: N:\CRF4\12112003\I328877D.raw

```

411 Ala Gln Thr Cys Arg Tyr Trp Arg Ile Leu Ala Glu Asp Asn Leu Leu
413 225      230      235      240
417 Trp Arg Glu Lys Cys Lys Glu Glu Gly Ile Asp Glu Pro Leu His Ile
419      245      250      255
423 Lys Arg Arg Lys Val Ile Lys Pro Gly Phe Ile His Ser Pro Trp Lys
425      260      265      270
429 Ser Ala Tyr Ile Arg Gln His Arg Ile Asp Thr Asn Trp Arg Arg Gly
431      275      280      285
435 Glu Leu Lys Ser Pro Lys Val Leu Lys Gly His Asp Asp His Val Ile
437      290      295      300
441 Thr Cys Leu Gln Phe Cys Gly Asn Arg Ile Val Ser Gly Ser Asp Asp
443 305      310      315      320
447 Asn Thr Leu Lys Val Trp Ser Ala Val Thr Gly Lys Cys Leu Arg Thr
449      325      330      335
453 Leu Val Gly His Thr Gly Gly Val Trp Ser Ser Gln Met Arg Asp Asn
455      340      345      350
459 Ile Ile Ile Ser Gly Ser Thr Asp Arg Thr Leu Lys Val Trp Asn Ala
461      355      360      365
465 Glu Thr Gly Glu Cys Ile His Thr Leu Tyr Gly His Thr Ser Thr Val
467      370      375      380
471 Arg Cys Met His Leu His Glu Lys Arg Val Val Ser Gly Ser Arg Asp
473 385      390      395      400
477 Ala Thr Leu Arg Val Trp Asp Ile Glu Thr Gly Gln Cys Leu His Val
479      405      410      415
483 Leu Met Gly His Val Ala Ala Val Arg Cys Val Gln Tyr Asp Gly Arg
485      420      425      430
489 Arg Val Val Ser Gly Ala Tyr Asp Phe Met Val Lys Val Trp Asp Pro
491      435      440      445
495 Glu Thr Glu Thr Cys Leu His Thr Leu Gln Gly His Thr Asn Arg Val
497      450      455      460
501 Tyr Ser Leu Gln Phe Asp Gly Ile His Val Val Ser Gly Ser Leu Asp
503 465      470      475      480
507 Thr Ser Ile Arg Val Trp Asp Val Glu Thr Gly Asn Cys Ile His Thr
509      485      490      495
513 Leu Thr Gly His Gln Ser Leu Thr Ser Gly Met Glu Leu Lys Asp Asn
515      500      505      510
519 Ile Leu Val Ser Gly Asn Ala Asp Ser Thr Val Lys Ile Trp Asp Ile
521      515      520      525
525 Lys Thr Gly Gln Cys Leu Gln Thr Leu Gln Gly Pro Asn Lys His Gln
527      530      535      540
531 Ser Ala Val Thr Cys Leu Gln Phe Asn Lys Asn Phe Val Ile Thr Ser
533 545      550      555      560
537 Ser Asp Asp Gly Thr Val Lys Leu Trp Asp Leu Lys Thr Gly Glu Phe
539      565      570      575
543 Ile Arg Asn Leu Val Thr Leu Glu Ser Gly Gly Ser Gly Gly Val Val
545      580      585      590
549 Trp Arg Ile Arg Ala Ser Asn Thr Lys Leu Val Cys Ala Val Gly Ser
551      595      600      605
555 Arg Asn Gly Thr Glu Glu Thr Lys Leu Leu Val Leu Asp Phe Asp Val

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/11/2003  
PATENT APPLICATION: US/09/328,877D TIME: 12:18:25

Input Set : A:\6142\_revised2.seq.txt  
Output Set: N:\CRF4\12112003\I328877D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2485, 3372  
Seq#:2; N Pos. 2506, 3393

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

- Seq#:1; Line(s) 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35
- Seq#:2; Line(s) 313, 315
- Seq#:3; Line(s) 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345
- Seq#:3; Line(s) 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375
- Seq#:3; Line(s) 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405
- Seq#:3; Line(s) 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435
- Seq#:3; Line(s) 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465
- Seq#:3; Line(s) 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495
- Seq#:3; Line(s) 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525
- Seq#:3; Line(s) 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555
- Seq#:3; Line(s) 557, 559, 561, 563, 565, 567, 569
- Seq#:4; Line(s) 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599
- Seq#:4; Line(s) 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629
- Seq#:4; Line(s) 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659
- Seq#:4; Line(s) 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689
- Seq#:4; Line(s) 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719
- Seq#:4; Line(s) 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749
- Seq#:4; Line(s) 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779
- Seq#:4; Line(s) 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809
- Seq#:4; Line(s) 811
- Seq#:5; Line(s) 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841
- Seq#:5; Line(s) 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871
- Seq#:5; Line(s) 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901
- Seq#:5; Line(s) 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931
- Seq#:5; Line(s) 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961
- Seq#:5; Line(s) 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991
- Seq#:5; Line(s) 993, 995, 997, 999, 1001, 1003, 1005, 1007, 1009, 1011, 1013, 1015
- Seq#:5; Line(s) 1017, 1019, 1021, 1023, 1025, 1027, 1029, 1031, 1033, 1035
- Seq#:6; Line(s) 1037, 1039, 1041, 1043, 1045, 1047, 1049, 1051, 1053, 1055, 1057, 1059
- Seq#:6; Line(s) 1061, 1063, 1065, 1067, 1069, 1071, 1073, 1075, 1077, 1079, 1081, 1083
- Seq#:6; Line(s) 1085, 1087, 1089, 1091, 1093, 1095, 1097, 1099, 1101, 1103, 1105, 1107
- Seq#:6; Line(s) 1109, 1111, 1113, 1115, 1117, 1119, 1121, 1123, 1125, 1127, 1129, 1131
- Seq#:6; Line(s) 1133, 1135, 1137, 1139, 1141, 1143, 1145, 1147, 1149, 1151, 1153, 1155
- Seq#:6; Line(s) 1157, 1159, 1161, 1163, 1165, 1167, 1169, 1171, 1173, 1175, 1177, 1179
- Seq#:6; Line(s) 1181, 1183, 1185, 1187, 1189, 1191, 1193, 1195, 1197, 1199, 1201, 1203
- Seq#:6; Line(s) 1205, 1207, 1209, 1211, 1213, 1215, 1217, 1219, 1221, 1223, 1225, 1227
- Seq#:6; Line(s) 1229, 1231, 1233, 1235, 1237, 1239, 1241, 1243, 1245, 1247, 1249, 1251

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/328,877D

DATE: 12/11/2003  
TIME: 12:18:25

Input Set : A:\6142\_revised2.seq.txt  
Output Set: N:\CRF4\12112003\I328877D.raw

Seq#:6; Line(s) 1253,1255,1257,1259  
Seq#:7; Line(s) 1261,1263,1265,1267,1269,1271,1273,1275,1277,1279,1281,1283  
Seq#:7; Line(s) 1285,1287,1289,1291,1293,1295,1297,1299,1301,1303,1305,1307  
Seq#:7; Line(s) 1309,1311,1313,1315,1317,1319,1321,1323,1325,1327,1329,1331  
Seq#:7; Line(s) 1333,1335,1337,1339,1341,1343,1345,1347,1349,1351,1353,1355  
Seq#:7; Line(s) 1357,1359,1361,1363,1365,1367,1369,1371,1373,1375,1377,1379  
Seq#:7; Line(s) 1381,1383,1385,1387,1389,1391,1393,1395,1397,1399,1401,1403  
Seq#:7; Line(s) 1405,1407,1409,1411,1413,1415,1417,1419,1421,1423,1425,1427  
Seq#:7; Line(s) 1429,1431,1433,1435,1437,1439,1441,1443,1445,1447,1449,1451  
Seq#:7; Line(s) 1453,1455,1457,1459,1461,1463,1465,1467,1469,1471,1473,1475  
Seq#:7; Line(s) 1477  
Seq#:8; Line(s) 1479,1481,1483,1485,1487,1489,1491,1493,1495,1497,1499,1501  
Seq#:8; Line(s) 1503,1505,1507,1509,1511,1513,1515,1517,1519,1521,1523,1525  
Seq#:8; Line(s) 1527,1529,1531,1533,1535,1537,1539,1541,1543,1545,1547,1549

## VERIFICATION SUMMARY

DATE: 12/11/2003

PATENT APPLICATION: US/09/328,877D

TIME: 12:18:25

Input Set : A:\6142\_revised2.seq.txt

Output Set: N:\CRF4\12112003\I328877D.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application Number

L:25 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2460

M:341 Repeated in SeqNo=1

L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:2460

M:341 Repeated in SeqNo=2